

PATENT

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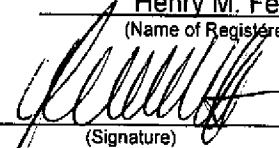
Docket No.: SCHREPFER

In re Application of:)	
ARMIN SCHREPFER)	
Appl. No.: 10/599,674)	
Int. Appl. No.: PCT/EP2005/051502)	Confirmation No.: 2702
Filed: October 5, 2006)	
For: COMPENSATION METHOD AND APPARATUS FOR PREVENTING DAMAGING BEARING CURRENTS IN AN ELECTRICAL MACHINE)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

CERTIFICATION OF EFS-WEB TRANSMISSION	
I hereby certify that this paper is being EFS-Web transmitted to the U.S. Patent and Trademark Office, Alexandria VA 22313-1450, on <u>July 10, 2007</u> .	
Date	
Henry M. Feiereisen	
(Name of Registered Representative)	
	7-10-2007
(Signature)	(Date of Signature)

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the specification, in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2005/051502 and in a German Office Action issued by the German Patent Office with regard to the corresponding German patent application No. 10 2004 016 738.9, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

Copies of these references are submitted herewith along with form PTO-1449. **Please note that the publication date of all references is listed as "DD-MM-YYYY".** The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

European Patent Appl. No. EP 1 445 850 which has been listed in the International Search Report is not available as prior art in the U.S., since its publication date is not more than one year prior to the international filing date of above referenced international patent application. This reference corresponds to U.S. Publ. No. 2004/0189115.

With respect to European Patent No. EP 0 271 678, an English-language Abstract is enclosed. This reference corresponds to U.S. Pat. No. 4,831,295.

Please note that pages 21-31 of the article by S. Chen, T.A. Lipo, D. Fitzgerald, "Modeling of Bearing Currents in Inverter Drives", which is cited in the specification, filed on October 5, 2006 have not been made available as of yet. This publication describes the formation of damaging bearing currents as lubricating film in the roller bearing can provide isolation only for a specific voltage, and then breaks down.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

Respectfully submitted

By: 

Henry M. Feiereisen
Agent for Applicant
Reg. No. 31,084

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	2
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Complete if Known

Application Number	10/599.674
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Filing Date	10/05/2006
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First Named Inventor	Armin Schreyer
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Art Unit

Examiner Name _____

Attorney Docket Number

SCHREPPFER

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/599,674
Filing Date	10/05/2006
First Named Inventor	Armin Schrepfer
Group Art Unit	
Examiner Name	
Attorney Docket Number	SCHREPPER

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	6.	Schiferl R.F., Melfi M.J., Wang J.S.: Inverter Driven Induction Motor Bearing Current Solutions. In: Petroleum and chemical Industry Conference 2002, Applications Society 49 th Annual, S. 67 - 75, 2002	
	7.	Chen S., Lipot T., Fitzgerald D.: Modeling of Motor Bearing Currents in PWM Inverter Drives. In: IEEE Transactions on Industry Applications, Vol. 32, No. 6, Nov./Dec. 1996, S. 1365 - 1370, 1996	
	8.	Rockwell Automation: Industry White Paper - Inverter-Driven Induction Motors Shaft and Bearing Current Solutions 03/11/02, S. 24 - 25, 2002	
	9.	Chenggang Mei et al.: "Minimization and cancellation of common-mode currents, shaft voltages and bearing currents for induction motor drives, vol. 4 of 4, Conf. 34, 15. June 2003; pages 1127 - 1132	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2005/051502

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02K11/00

CORRECTED VERSION

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05, 30 April 1998 (1998-04-30) - & JP 10 014159 A (MATSUSHITA SEIKO CO LTD), 16 January 1998 (1998-01-16) abstract ----- -/--	1,10,16

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

5 July 2005

Date of mailing of the international search report

Name and mailing address of the ISA

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Authorized officer

Roy, C

INTERNATIONAL SEARCH REPORT

International Application No

P EP2005/051502

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CHENGGANG MEI ET AL: "Minimization and cancellation of common-mode currents, shaft voltages and bearing currents for induction motor drives" PESC'03, 2003 IEEE 34TH. ANNUAL POWER ELECTRONICS SPECIALISTS CONFERENCE. CONFERENCE PROCEEDINGS. ACAPULCO, MEXICO, JUNE 15 - 19, 2003, ANNUAL POWER ELECTRONICS SPECIALISTS CONFERENCE, NEW YORK, NY : IEEE, US, vol. VOL. 4 OF 4. CONF. 34, 15 June 2003 (2003-06-15), pages 1127-1132, XP010647631 ISBN: 0-7803-7754-0 figures 4-6	1,10,16
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 244 (E-346), 30 September 1985 (1985-09-30) -& JP 60 096150 A (NISHISHIBA DENKI KK), 29 May 1985 (1985-05-29) abstract	1
P,X	EP 1 445 850 A (AB SKF) 11 August 2004 (2004-08-11) figure 1	1-3, 6-11, 13-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

P EP2005/051502

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 10014159	A	16-01-1998	NONE	
JP 60096150	A	29-05-1985	NONE	
EP 1445850	A	11-08-2004	DE 20301956 U1 BR 0400479 A CA 2455198 A1 CN 1531158 A EP 1445850 A1 HU 0400111 A2 JP 2004242496 A PL 364840 A1 US 2004189115 A1	17-06-2004 24-05-2005 07-08-2004 22-09-2004 11-08-2004 28-01-2005 26-08-2004 09-08-2004 30-09-2004